

AMENDMENTS

Listing of Claims:

The following listing of claims replaces all previous listings or versions thereof:

598. (Currently Amended) A ~~variable-stride~~ stationary exercise apparatus, comprising:

- a frame;
- a crank system coupled to the frame;
- ~~a movable member coupled to the crank system, wherein the movable member can travel in a substantially curvilinear path during use of the apparatus;~~
- ~~a foot member coupled to the movable member, wherein the foot member and the movable member are configured such that the user of the apparatus can selectively control the path of the foot member;~~
- ~~wherein the apparatus is configured such that a foot of the user can travel in a substantially curvilinear path during use of the apparatus; and~~
- ~~wherein the apparatus is configured such that at least a portion of the apparatus remains substantially stationary during use.~~
- a left arm link member coupled to the frame;
- a right arm link member coupled to the frame;
- a left foot member having a left foot pad and coupled to the left arm link member;
- a right foot member having a right foot pad and coupled to the right arm link member;
- a left articulating cam system comprising a left pivotal cam member having a left cam surface, said left articulating cam system operatively associated with the left foot member and the crank system so that said left cam surface is proximal to said left foot pad during operation of the apparatus allowing the left foot of the user to impart a force on the left foot member in cooperation with the left cam surface to vary the stride substantially instantaneously; and
- a right articulating cam system comprising a right pivotal cam member having a right cam surface, said right articulating cam system operatively associated with the right foot member and the crank system so that said right cam surface is proximal to said right foot pad during operation of the apparatus allowing the right foot of the user to impart a force on the right foot member in cooperation with the right cam surface to vary the stride substantially instantaneously.

wherein the apparatus is configured such that the feet of the user may travel in a substantially closed path and the angular relationships between the left foot pad and the left cam member and between the right foot pad and the right cam member may vary during operation of the apparatus.

Please cancel claims 599-624 without prejudice.

Please add new claims 769-802 as follows:

769. (New) A stationary exercise apparatus comprising:

- a frame;
- a crank system coupled to the frame;
- a left arm link member coupled to the frame;
- a right arm link member coupled to the frame;
- a left movable member coupled to the crank system;
- a right movable member coupled to the crank system;
- a left pivotal member having a left cam surface and pivotally connected to the left movable member;
- a right pivotal member having a right cam surface and pivotally connected to the right movable member;
- a left foot member having a left cam follower wherein the left cam follower moves along the left cam surface during operation of the apparatus; and
- a right foot member having a right cam follower wherein the right cam follower moves along the right cam surface during operation of the apparatus,

wherein the left and right cam members and the left and right movable members are configured so as to allow the feet of the user to impart forces on the left and right foot members to cooperate with the left and right cam members to vary the stride substantially instantaneously, and wherein the left and right portions of the apparatus are cross coupled so that the left foot member moves in opposition to the right foot member and the feet of the user may travel in a substantially closed path.

770. (New) A stationary exercise apparatus comprising:

- a frame;
- a crank system coupled to the frame;
- a left arm link member coupled to the frame;
- a right arm link member coupled to the frame;
- a left foot member having a left foot pad and coupled to the left arm link member;
- a right foot member having a right foot pad and coupled to the right arm link member;
- a left cam member having a left cam surface, said left cam member pivotally connected to the left foot member and coupled to the crank system so that said left cam surface is proximal said left foot pad during operation of the apparatus so as to allow the left foot of the user to impart a force on the left foot member in cooperation with the left cam surface to vary the stride substantially instantaneously; and
- a right cam member having a right cam surface, said right cam member pivotally connected to the right foot member and coupled to the crank system so that said right cam surface is proximal said right foot pad during operation of the apparatus so as to allow the right foot of the user to impart a force on the right foot member in cooperation with the right cam surface to vary the stride substantially instantaneously,

wherein the apparatus is configured such that the feet of the user may travel in a substantially closed path, and the angular relationships between the left foot pad and the left cam member and between the right foot pad and the right cam member may vary during operation of the apparatus..

771. (New) The apparatus of claim 598 wherein the feet of the user may travel in a substantially closed elliptical path.

772. (New) The apparatus of claim 598 wherein the feet of the user may travel in a closed orbital path.

773. (New) The apparatus of claim 598 further comprising a brake/inertia device coupled to the crank system.

774. (New) The apparatus of claim 773 wherein the brake/inertia device is coupled to a portion of the frame in front of the user.

775. (New) The apparatus of claim 773 wherein the left foot member and the right foot member are cross-coupled.

776. (New) The apparatus of claim 773 further comprising a housing, wherein the housing encloses at least a portion of the brake/inertia device.

777. (New) The apparatus of claim 598 wherein the left and right cam surfaces are nonsymmetrical.

778. (New) The apparatus of claim 598 wherein the left and right cam surfaces are symmetrical.

779. (New) The apparatus of claim 598 wherein the apparatus has a maximum stride length that is at least about 40% of the overall length of the apparatus.

780. (New) The apparatus of claim 598 wherein the crank system comprises a pulley.

781. (New) The apparatus of claim 780 wherein the crank system comprises a left crank and a right crank coupled to the pulley.

782. (New) The apparatus of claim 781 wherein the length of each left and right cam surface is at least two times the length of either left or right crank.

783. (New) The apparatus of claim 769 wherein the crank system comprises a pulley.

784. (New) The apparatus of claim 783 wherein the crank system comprises a left crank and a right crank coupled to the pulley.

785. (New) The apparatus of claim 769 wherein the feet of the user may travel in a substantially closed elliptical path.

786. (New) The apparatus of claim 769 wherein the feet of the user may travel in a closed orbital path.

787. (New) The apparatus of claim 769 further comprising a brake/inertia device coupled to the crank system.

788. (New) The apparatus of claim 787 further comprising a housing, wherein the housing encloses at least a portion of the brake/inertia device.

789. (New) The apparatus of claim 769 wherein the left and right cam surfaces are nonsymmetrical.

790. (New) The apparatus of claim 769 wherein the left and right cam surfaces are symmetrical.

791. (New) The apparatus of claim 769 wherein at least a portion of the left movable member and the right movable member generally distal each such end coupled to the crank system moves in a substantially closed path.

792. (New) The apparatus of claim 769, wherein the left and right foot members and the left and right cam systems are configured to provide a force that restores the users feet to a substantially neutral position during use of the apparatus.

793. (New) The apparatus of claim 770 wherein the crank system comprises a pulley.

794. (New) The apparatus of claim 793 wherein the crank system comprises a left crank and a right crank coupled to the pulley.

795. (New) The apparatus of claim 770 wherein the feet of the user may travel in a substantially closed elliptical path.

796. (New) The apparatus of claim 770 wherein the feet of the user may travel in a closed orbital path.

797. (New) The apparatus of claim 770 further comprising a brake/inertia device coupled to the crank system.

798. (New) The apparatus of claim 797 further comprising a housing, wherein the housing encloses at least a portion of the brake/inertia device.

799. (New) The apparatus of claim 770 wherein the left and right cam surfaces are nonsymmetrical.

800. (New) The apparatus of claim 770 wherein the left and right cam surfaces are symmetrical.

801. (New) The apparatus of claim 770 wherein at least a portion of the left movable member and the right movable member generally distal each such end coupled to the crank system moves in a substantially closed path.

802. (New) The apparatus of claim 770, wherein the left and right foot members and the left and right cam systems are configured to provide a force that restores the users feet to a substantially neutral position during use of the apparatus.